(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



A JEDNA DANIHAN NI BANKE KICH EDAN EDIN EDIN EDIN KAKA BERKA DERIK DIREK KICH HAN BERKAN DADA NA HELI

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PCT/US2004/015457

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- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/471,509

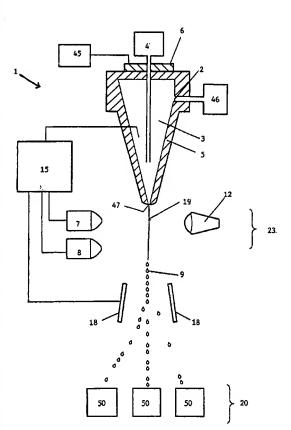
15 May 2003 (15.05.2003) US

- (71) Applicant (for all designated States except US): XY, INC. [US/US]; 1108 North Lemay Avenue, Fort Collins, CO 80524 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EVANS, Kenneth, M. [US/US]; 3206 Liesl Court, College Station, TX 77845-6311 (US). GILLIGAN, Thomas, B. [US/US]; 1856 Michael Lane, Fort Collins, CO 80526 (US). SUH, Tae Kwang [KR/US]; 3344 Golden Currant Blvd., Fort Collins, CO 80521 (US). COX, Todd, A. [US/US]; 1417 Pikes Peak Avenue, Fort Collins, CO 80524 (US).

- (74) Agent: RESSUE, Nicole, A.; Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, CO 80521 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: EFFICIENT HAPLOID CELL SORTING FOR FLOW CYTOMETER SYSTEMS



(57) Abstract: A flow cytometry system (1) for sorting haploid cells, specifically irradiatable sperm cells, with an intermittingly punctuated radiation emitter (56). Embodiments include a beam manipulator (21) and even split radiation beams directed to multiple nozzles (5). Differentiation of sperm characteristics with increased resolution may efficiently allow differentiated sperm cells to be separated higher speeds and even into subpopulations having higher purity.

WO 2004/104178 A3



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report: 26 January 2006

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

International application No.

PCT/US04/15457

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|---|---|--|--|--|--|--|--|
| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/00 US CL : 435/2; 422/73; 436/63 | | | | | | | |
| US CL | According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | |
| | | tional classification and IPC | | | | | |
| B. FIELDS SEARCHED | | | | | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/2; 422/73; 436/63 | | | | | | | |
| Documentation | Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST | | | | | | | |
| C. DOC | UMENTS CONSIDERED TO BE RELEVANT | | | | | | |
| Category * | Citation of document, with indication, where a | | | | | | |
| A | US 6,149,867 A (SEIDEL et al.) 21 November 2000 | (21.11.2000), see entire document. 1-230 | | | | | |
| A | US 4,559,309 A (EVENSON et al.) 17 December 19 | 985 (17.12.1985), see entire document. 1-230 | | | | | |
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| Further | documents are listed in the continuation of Box C. | See patent family annex. | | | | | |
| * S | pecial categories of cited documents; | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the | | | | | |
| | defining the general state of the art which is not considered to be of relevance | principle or theory underlying the invention | | | | | |
| "B" carlier ap | plication or patent published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step | | | | | |
| | which may throw doubts on priority claim(s) or which is cited to | when the document is taken alone | | | | | |
| establish specified) | the publication date of another citation or other special reason (as | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined | | | | | |
| specified | | with one or more other such documents, such combination being obvious | | | | | |
| "O" document | referring to an oral disclosure, use, exhibition or other means | to a person skilled in the art | | | | | |
| | published prior to the international filing date but later than the ate claimed | "&" document member of the same patent family | | | | | |
| Date of the a | ctual completion of the international search | Date of mailing of the international search report | | | | | |
| 19 November | r 2005 (19.11.2005) | 1 \ U.5 DEC 2000 - / - | | | | | |
| | ailing address of the ISA/US | Authorized officer | | | | | |
| | il Stop PCT, Attn: ISA/US | 1 /1 wax Drugger | | | | | |
| Commissioner for Patents Leon Einkibid | | | | | | | |
| | . Box 1450 xandria, Virginia 22313-1450 | Telephone No. (571) 272-1600 | | | | | |
| Facsimile No. (571) 273-3201 | | | | | | | |

Form PCT/ISA/210 (second sheet) (April 2005)

International application No.

PCT/US04/15457

| Box No. II | Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) | | |
|--|---|--|--|
| This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | | | |
| 1. | Claims Nos.: 231 because they relate to subject matter not required to be searched by this Authority, namely: The claim reads on a human being. | | |
| 2. | Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: | | |
| 3. | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | | |
| Box No. III | Observations where unity of invention is lacking (Continuation of item 3 of first sheet) | | |
| This Internat | ional Searching Authority found multiple inventions in this international application, as follows: | | |
| 1. | As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: | | |
| 4. Remark on | No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest | | |

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

| To: NICOLE A. RESSUE SANTANGELO LAW OFFICES, P.C. 125 SOUTH HOWES, THIRD FLOOR FORT COLLINS, CO 80521 | PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing |
|--|---|
| Applicant's or agent's file reference | (day/month/year) 05 DFC 2005 FOR FURTHER ACTION See paragraphs 1 and 4 below |
| XY-PULSE-PCT International application No. | International filing date |
| PCT/US04/15457 | (day/month/year) 15 May 2004 (15.05.2004) |
| Applicant XY, INC. | |
| have been established and are transmitted herewith. Filing of amendments and statement under Article 19: | ch report and the written opinion of the International Searching Authority |
| | ms of the international application (see Rule 46): normally two months from the date of transmittal of the international |
| search report. Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No. | |
| For more detailed instructions, see the notes on the a | ccompanying sheet. |
| 2. The applicant is hereby notified that no international scarce Article 17(2)(a) to that effect and the written opinion of the | th report will be established and that the declaration under e International Searching Authority are transmitted herewith. |
| 3. With regard to the protest against payment of (an) addi | tional fee(s) under Rule 40.2, the applicant is notified that: |
| the protest together with the decision thereon has been request to forward the texts of both the protest and the | en transmitted to the International Bureau together with the applicant's ne decision thereon to the designated Offices. |
| | plicant will be notified as soon as a decision is made. |
| Bureau. If the applicant wishes to avoid or postpone publication, | e, the international application will be published by the International a notice of withdrawal of the international application, or of the priority 10bis.1 and 90bis.3, respectively, before the completion of the technical |
| International Bureau. The International Bureau will send a cop preliminary examination report has been or is to be established, before the expiration of 30 months from the priority date. | the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international These comments would also be made available to the public but not |
| examination must be filed if the applicant wishes to postpone the some Offices even later); otherwise, the applicant must, within 2 into the national phase before those designated Offices. | of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date (in 0 months from the priority date, perform the prescribed acts for entry |
| In respect of other designated Offices, the time limit of 30 months | (or later) will apply even if no demand is filed within 19 months. pplicable time limits, Office by Office, see the PCT Applicant's Guide, |
| Volume II, National Chapters and the WIPO Internet site. | Principle unit initial, Office by Office, see the PCI Applicant's Guide, |
| Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 | Leon Lankfold Telephone No. (571) 272-1600 |
| Form PCT/ISA/220 (January 2004) | (See notes on accompanying sheet) |

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference XY-PULSE-PCT | | Form PCT/ISA/220 ore applicable, item 5 below. |
|--|---|---|
| International application No. PCT/US04/15457 | International filing date (day/month/year) 15 May 2004 (15.05.2004) | (Earliest) Priority Date (day/month/year) 15 May 2003 (15.05.2003) |
| Applicant XY, INC. | | |
| This international search report consists of the Report a. With regard to the language, the the international a translation of the of a translation furth to the language to the language to the language to the international a translation furth to the language to the language to the international a translation furth to fa translation furth to fa translation furth to fa translation furth to fa translation furth to fairness where found the language to the translation furth to fairness where found the language to the translation furth to fairness where found the language to the translation furth to fairness where found the language to the translation furth to fairness where found the language to the language to fairness where found the language t | of a total of sheets. by a copy of each prior art document cited international search was carried out on the base application in the language in which it was fine international application into unished for the purposes of international scar de and/or amino acid sequence disclosed in unsearchable (See Box No. II) g (See Box No. III) | in this report. asis of: led, which is the language wh (Rules 12.3(a) and 23.1(b)) |
| 5. With regard to the abstract, the text is approved as submitthe text has been established may, within one month from | itted by the applicant. , according to Rule 38.2(b), by this Authority the date of mailing of this international searc | as it appears in Box No. IV. The applicant the report, submit comments to this Authority. |
| as suggested by the a | authority, because the applicant failed to sugg authority, because this figure better characteri ablished with the abstract. | - |

International application No.

PCT/US04/15457

| Box No. II | Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) |
|------------------|--|
| This internation | onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| | Claims Nos.: 231 because they relate to subject matter not required to be searched by this Authority, namely: The claim reads on a human being. |
| | Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: |
| | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Вох №. ПІ | Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This Internatio | onal Searching Authority found multiple inventions in this international application, as follows: |
| | As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. |
| | As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. |
| | As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: |
| 4. | No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| Remark on Pr | which applicable, att |
| | payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee |
| | was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees. |

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

International application No.

PCT/US04/15457

| | | 101/0804/1343/ | · · · · · · · · · · · · · · · · · · · | | |
|--|---|---|---------------------------------------|--|--|
| A. CLAS | SIFICATION OF SUBJECT MATTER | | | | |
| IPC(7) : G01N 33/00 | | | | | |
| US CL : 435/2; 422/73; 436/63 | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | |
| B. FIELDS SEARCHED | | | | | |
| D. FIELL | 33 SCARCIED | | | | |
| Minimum do | Minimum documentation searched (classification system followed by classification symbols) | | | | |
| | 5/2; 422/73; 436/63 | | | | |
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| Documentation | on searched other than minimum documentation to the | extent that such documents are included i | in the fields searched | | |
| Document | on searched other than minimum documentation to the | extent that such documents are menucal | in the fields scarolled | | |
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| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | | | |
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| C. DOC | JMENTS CONSIDERED TO BE RELEVANT | | | | |
| | | | Balanna ta alaim Ma | | |
| Category * | Citation of document, with indication, where a | | Relevant to claim No. | | |
| A | US 6,149,867 A (SEIDEL et al.) 21 November 2000 | (21.11.2000), see entire document. | 1-230 | | |
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| A | US 4,559,309 A (EVENSON et al.) 17 December 19 | 085 (17.12.1985) see entire document | 1-230 | | |
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| Further | documents are listed in the continuation of Box C. | See patent family annex. | | | |
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| l s | pecial categories of cited documents: | "T" later document published after the inters and not in conflict with the application b | | | |
| "A" document | defining the general state of the art which is not considered to be of | principle or theory underlying the invent | | | |
| | relevance | hendre or many mounting are missing | | | |
| | | "X" document of particular relevance; the cla | simed invention cannot be | | |
| "E" earlier app | plication or patent published on or after the international filing date | considered novel or cannot be considere | d to involve an inventive step | | |
| "L" document | which may throw doubts on priority claim(s) or which is cited to | when the document is taken alone | | | |
| | the publication date of another citation or other special reason (as | "Y" document of particular relevance; the cla | simed invention cannot be | | |
| specified) | | considered to involve an inventive step | | | |
| | | with one or more other such documents, | | | |
| "O" document | referring to an oral disclosure, use, exhibition or other means | to a person skilled in the art | • | | |
| "P" document | multiplied out and a this intermediated filling day has been then the | NO. 1 | | | |
| | published prior to the international filing date but later than the | "&" document member of the same patent fa | muy | | |
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| 19 November | 2005 (19.11.2005) | <u> </u> | 1/./ | | |
| | ailing address of the ISA/US | Authorized officer | 7 | | |
| 1 | 1 Stop PCT, Attn: ISA/US | 1 /41 JUNE 10/144 CAY - | N | | |
| Commissioner for Patents Leon Eankloyd | | | | | |
| P.O. Box 1450 | | | | | |
| | Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600 | | | | |
| Facsimile No | Facsimile No. (571) 273-3201 | | | | |
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Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

| From the INTERNAT | ΓΙΟΝΑL SEARC | HING AUTHO | RITY | | |
|---------------------|---|--------------------------------------|---|--|---|
| SANTAN 125 SOU | A RESSUE IGELO LAW OF TH HOWES, THI DLLINS, CO 803 | RD FLOOR | | | PCT RITTEN OPINION OF THE ONAL SEARCHING AUTHORITY |
| | | | | | (PCT Rule 43bis.1) |
| | | | | Date of mailing (day/month/year) | US DEC 2005 |
| Applicant | 's or agent's file r | eference | | FOR FURTHER | ACTION See paragraph 2 below |
| XY-PULS | | | | | |
| Internation | nal application No | D.] | International filing date | (day/month/year) | Priority date (day/month/year) |
| PCT/USO | | | 15 May 2004 (15.05.200 | | 15 May 2003 (15.05.2003) |
| Internation | nal Patent Classit | ication (IPC) or | both national classificat | ion and IPC | |
| IPC(7): G Applicant | 01N 33/00 and U | S Cl.: 435/2; 42: | 2/73; 436/63 | | |
| XY, INC. | | | | | |
| | | | | | |
| 1. This | opinion contains i | ndications relati | ing to the following item | is: | |
| \boxtimes | Box No. I | Basis of the o | pinion | | |
| | Box No. II Priority | | | | |
| \boxtimes | Box No. III | Non-establish | nment of opinion with re | gard to novelty, inver | ntive step and industrial applicability |
| | Box No. IV | Lack of unity | of invention | | |
| | Box No. V | Reasoned stat applicability; | tement under Rule 43bis citations and explanatio | .1(a)(i) with regard to ns supporting such st | o novelty, inventive step or industrial tatement |
| | Box No. VI | Certain docur | nents cited | | |
| | Box No. VII | Certain defec | ts in the international ap | plication | |
| | Box No. VIII | Certain obser | vations on the internatio | nal application | |
| 2. FUR | THER ACTIO | N | | | |
| Interr Author | national Prelimina prity other than the | ary Examining his one to be the | Authority ("IPEA") ex | ccept that this does IPEA has notified th | be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66.1bis(b) ered. |
| of Fo | a written reply to rm PCT/ISA/220 | ogether, where a or before the ex | appropriate, with amend piration of 22 months fr | ments, before the ex- | PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later. |
| For fi | urther options, see | Form PCT/ISA | √220. | | |
| 3. For fi | urther details, see | notes to Form P | CT/ISA/220. | | |
| 1 | mailing address | | Date of comple | tion of this opinion | Autorized officer BankCup |
| 1 | Mail Stop PCT, Ath Commissioner for P P.O. Box 1450 | | 19 November 2 | 2005 (19.11.2005) | Leon Lankford |
| , | P.O. Box 1450 Alexandria, Virginia No. (571) 273-32 | | | | Telephone No. (571) 272-1600 |

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/15457

| Box No. I Basis of this opinion |
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| |
| 1. With regard to the language, this opinion has been established on the basis of: |
| the international application in the language in which it was filed |
| a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)). |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: |
| a. type of material |
| a sequence listing |
| table(s) related to the sequence listing |
| b. format of material |
| on paper |
| in electronic form |
| c. time of filing/furnishing |
| contained in the international application as filed. |
| filed together with the international application in electronic form. |
| furnished subsequently to this Authority for the purposes of search. |
| The second secon |
| In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. Additional comments: |
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| Form PCT/ISA/237(Box No. I) (April 2005) |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/15457

| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
|--|
| The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of: |
| the entire international application |
| |
| because: |
| the said international application, or the said claim Nos. 231 relate to the following subject matter which does not require an international search (specify): |
| The claim reads on a human being. |
| the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify): |
| the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify): |
| no international search report has been established for said claims Nos. 231 |
| a meaningful opinion could not be formed without the sequence listing, the applicant did not, within the prescribed time limit: |
| furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. |
| furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. |
| pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b). |
| a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. |
| the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. |
| See Supplemental Box for further details. |

Form PCT/ISA/237 (Box No. III) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US04/15457

| applicability; citations and expl | шин опо опрре | B David State (Interior | |
|--|---------------------|--|-------------------------------|
| Statement | | | |
| Novelty (N) | Claims | 1-230 | YES |
| | Claims | NONE | NO |
| Inventive step (IS) | Claims | 1-230 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | I <u>-230</u> | YES |
| | Claims] | | NO |
| | | | |
| Citations and explanations: | I- 22/2\ /2\ I | | |
| aims 1-230 meet the criteria set out in PCT Articl analyzing sporm with a flow cytometer. | le 33(2)-(3), becau | se the prior art does not teach or fai | rly suggest the claims method |
| aims 1-230 meet the criteria set out in PCT Articl | e 33(4), and thus | have industrial applicability because | the subject matter claimed c |
| made or used in industry. | . ,, | | ale suejest hansi siannes c |
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